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TECHNICAL MANUAL

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OPERATOR'S ORGANIZATIONAL, AND DIRECT SUPPORT MAINTENANCE MANUAL (INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST)

POWER TRANSFER BOX J-3748/G

(NSN 6115-01-108-9094)

HEADQUARTERS, DEPARTMENT OF THE ARMY
10 SEPTEMBER 1985

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Mlb

5 SAFETY STEPS TO FOLLOW IF SOMEONE IS THE VICTIM OF ELECTRICAL SHOCK

1. DO NOT TRY TO PULL OR GRAB THE INDIVIDUAL
2. IF POSSIBLE , TURN OFF THE ELECTRICAL POWER
3. IF YOU CANNOT TURN OFF THE ELECTRICAL POWER, PULL, PUSH, OR LIFT THE PERSON TO SAFETY USING A WOODEN POLE OR A ROPE OR SOME OTHER INSULATING MATERIAL
4. SEND FOR HELP AS SOON AS POSSIBLE
5. AFTER THE INJURED PERSON IS FREE OF CONTACT WITH THE SOURCE OF ELECTRICAL SHOCK, MOVE THE PERSON A SHORT DISTANCE AWAY AND IMMEDIATELY START ARTIFICIAL RESUSCITATION

A

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WARNING

HIGH VOLTAGE

is used in the operation of this equipment

DEATH ON CONTACT

may result if personnel fail to observe safety precautions

Never work on electronic equipment unless there is another person nearby who is familiar with the operation and hazards of the equipment and who is competent in administering first aid. When the technician is aided by operators, he must warn them about dangerous areas. Learn the areas containing high voltage in each piece of equipment. Be careful not to contact high-voltage connections when installing or operating this equipment.

DANGER 208V, turn off switches when input cable and generator are not connected. Remove input cables before accessing the interior.

CAUTION

Do not close switches unless all maintenance and operating personnel are clear of the related generator set and operating equipment.

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Technical Manual
No. 11-6115-472-13&P

HEADQUARTERS
DEPARTMENT OF THE ARMY
Washington, DC, *10 September 1985*

OPERATOR'S ORGANIZATIONAL, AND DIRECT SUPPORT MAINTENANCE MANUAL (INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST)

POWER TRANSFER BOX J-3748/G

(NSN 6115-01-108-9049)

REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS
You can help improve this manual. If you find any mistakes or if you know of a way to improve the procedure, please let us know. Mail your letter, DA Form 2028 (Recommended Changes to Publications and Blank Forms), or DA Form 2028-2 located in the back of this manual direct to: Commander, US Army Communications-Electronics Command and Fort Monmouth, ATTN: AMSEL-ME-MP, Fort Monmouth, New Jersey 07703-5007.

In either case, a reply will be furnished direct to you.

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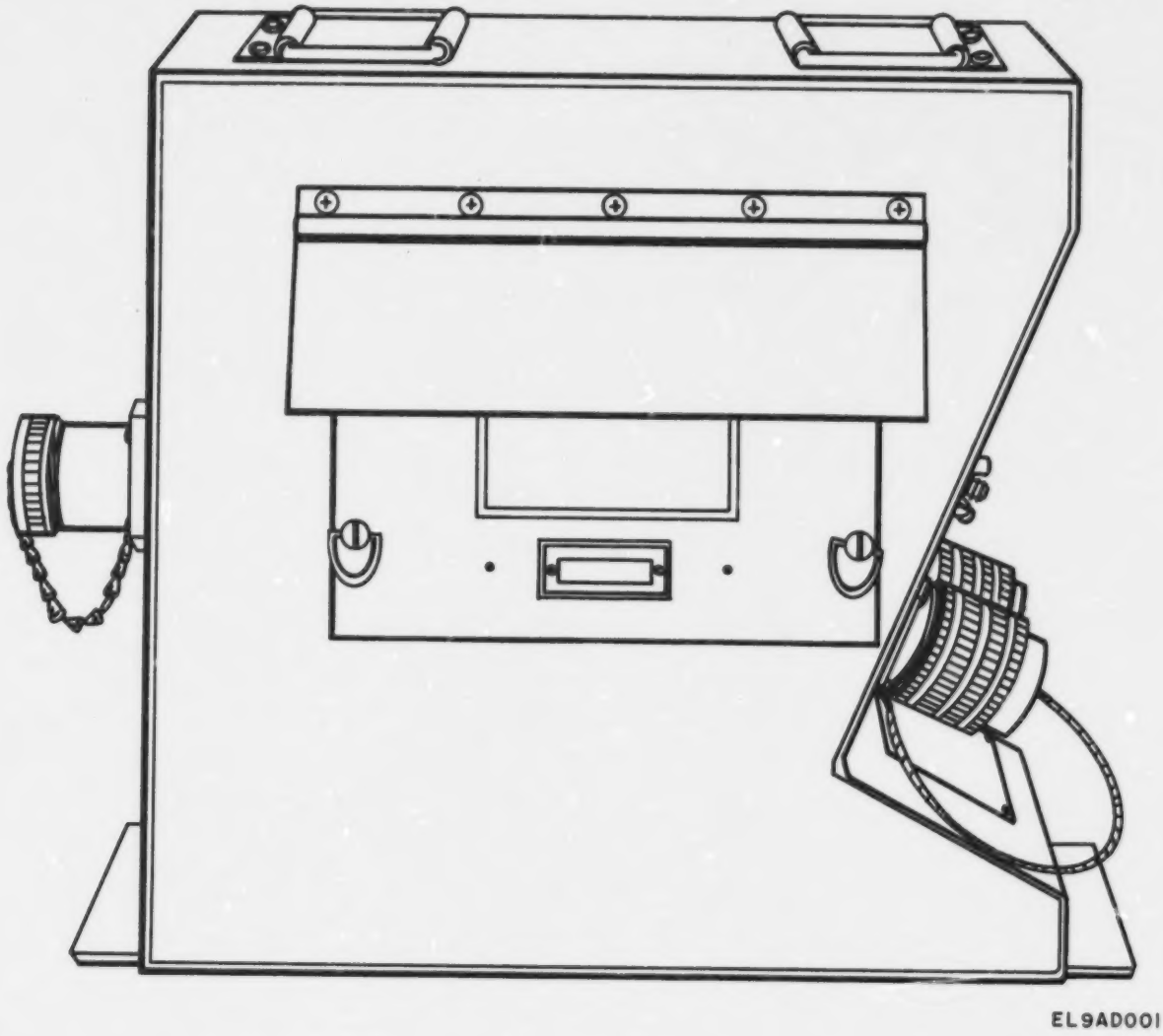

Figure 1-1. Power Transfer Box J-3748/G.

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CHAPTER 1

INTRODUCTION

Section I. GENERAL INFORMATION

1-1. Scope

This manual describes Power Transfer Box J-3748/G (fig. 1-1) hereinafter call J-box. It includes instructions for operation and maintenance, and contains the repair parts and special tools list (appx B).

1-2. Consolidated Index of Army Publications and Blank Forms

Refer to the latest issue of DA Pam 310-1 to determine whether there are new editions, changes or additional publications pertaining to the equipment.

1-3. Maintenance Forms, Records, and Reports

a. Reports of Maintenance and Unsatisfactory Equipment. Department of the Army forms and procedures used for equipment maintenance will be those prescribed by DA Pam 738-750 as contained in Maintenance Management Update.

b. Report of Packaging and Handling Deficiencies. Fill out and forward SF 364 (Report of Discrepancy (ROD)) as prescribed in AR 735-11-2/DLAR 4140.55/NAVMATINST 4355.73A/AFR 400-54/MCO 4430.3F.

c. Discrepancy in Shipment Report (DISREP) (SF 361). Fill out and forward Discrepancy in Shipment Report (DISREP) (SF 361) as prescribed in AR 55-38/NAVSUPINST 4610.33C/AFR 75-18/MCO P4610.19D/DLAR 4500.15.

1-4. Reporting Equipment Improvement Recommendations (EIRs)

If your J-box needs improvement, let us know. Send us an EIR. You, the user, are the only one who can tell us what you don't like about your equipment. Let us know why you don't like the design. Put it on an SF 368 (Quality Deficiency Report). Mail it to Commander, US Army Communications-Electronics Command and Fort Monmouth, ATTN: AMSEL-ME-MP, Fort Monmouth, New Jersey 07703-5007. We'll send you a reply.

Section II. EQUIPMENT DESCRIPTION AND DATA

1-5. Equipment Characteristics, Capabilities and Data

Use of the J-box will facilitate transferring power from one generator to another without extended interruption of power being supplied to the load. The J-box is a simple Y connector, allowing two 60 kw power units to be simultaneously connected to one load. When one generator needs to be shut down for servicing, it becomes a simple matter to transfer the load from the first generator to the second with only minor loss of power time to the load.

Dimensions

Height:	18"
Depth:	21"
Width:	10"
Weight:	65 lbs

Electrical Characteristics

Transfers 220 V, 3-phase, 60 Hz, 50A/phase

1-6. Location and Description of Major Components

On the front of the J-box (fig. 1-2) there are two input connectors. When not in use, the protective covers should be in place. Two switches, protected by a rubber rain flap and a metal cover, are on the left side of the J-box (fig. 1-3). The output connector and terminal load bar (fig. 1-4) are found on the back of the J-box. The internal wiring (fig. 1-5) can be reached by removing the panel located on the right side of the box. A schematic drawing (fig. 1-6) of the wiring is on the inside of this panel. Three ground strap assemblies, two 6 ft and one 20 ft, are supplied with the J-box to be used for grounding.

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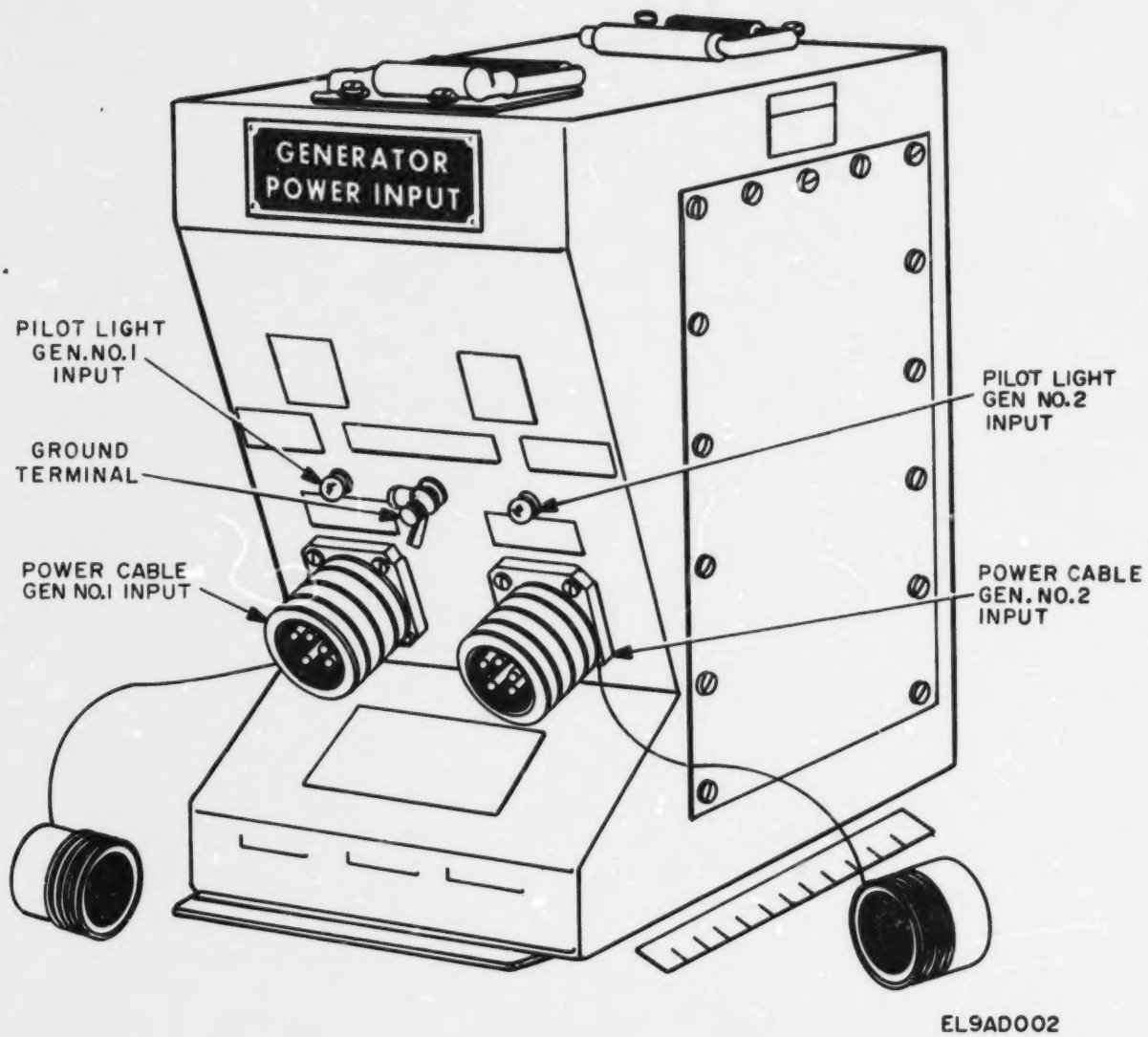

Figure 1-2. Power Input Terminals.

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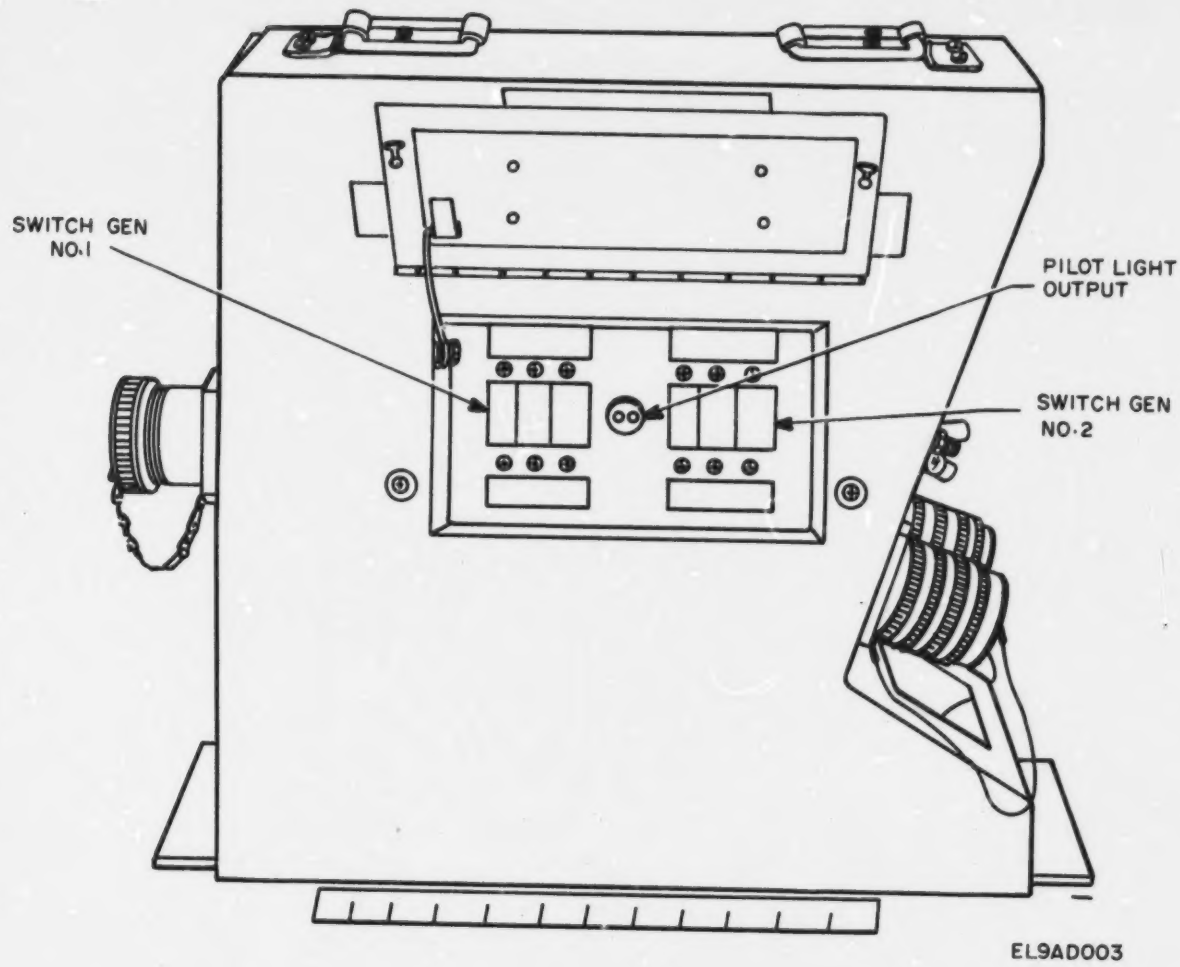

Figure 1-3. Switches.

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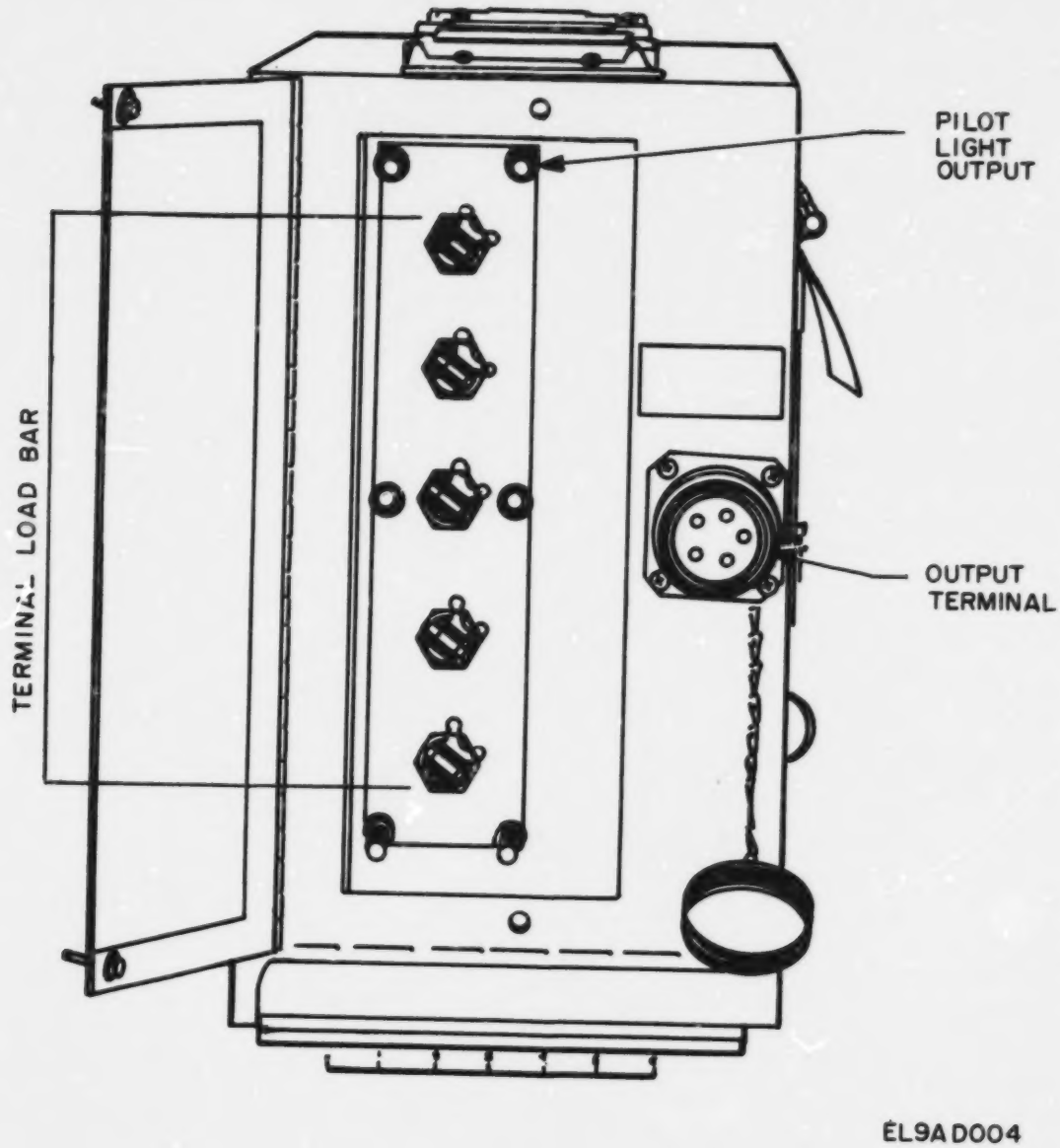

Figure 1-4. Power Output/Terminal Load Bar.

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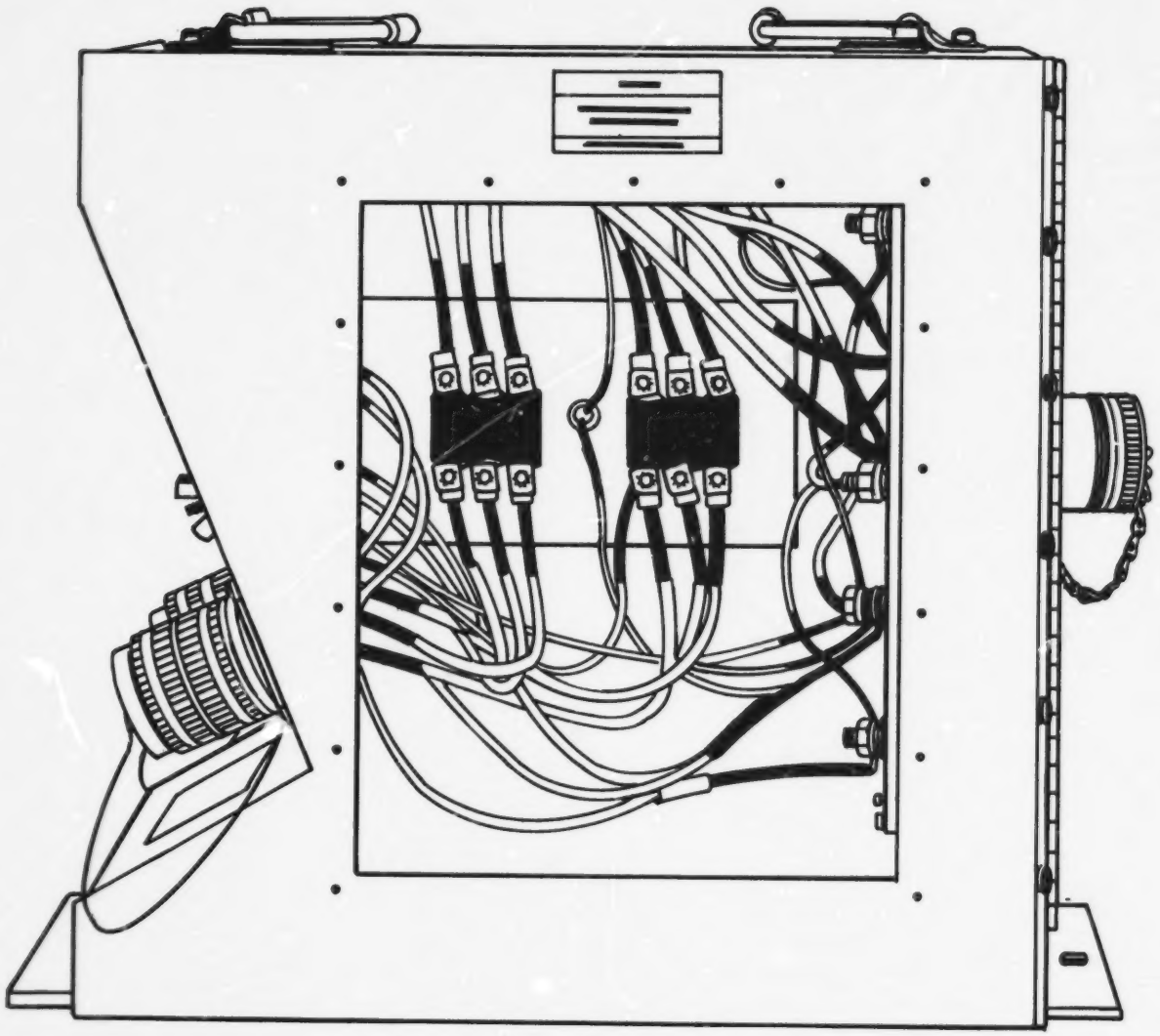

Figure 1-5. View of Internal Wiring.

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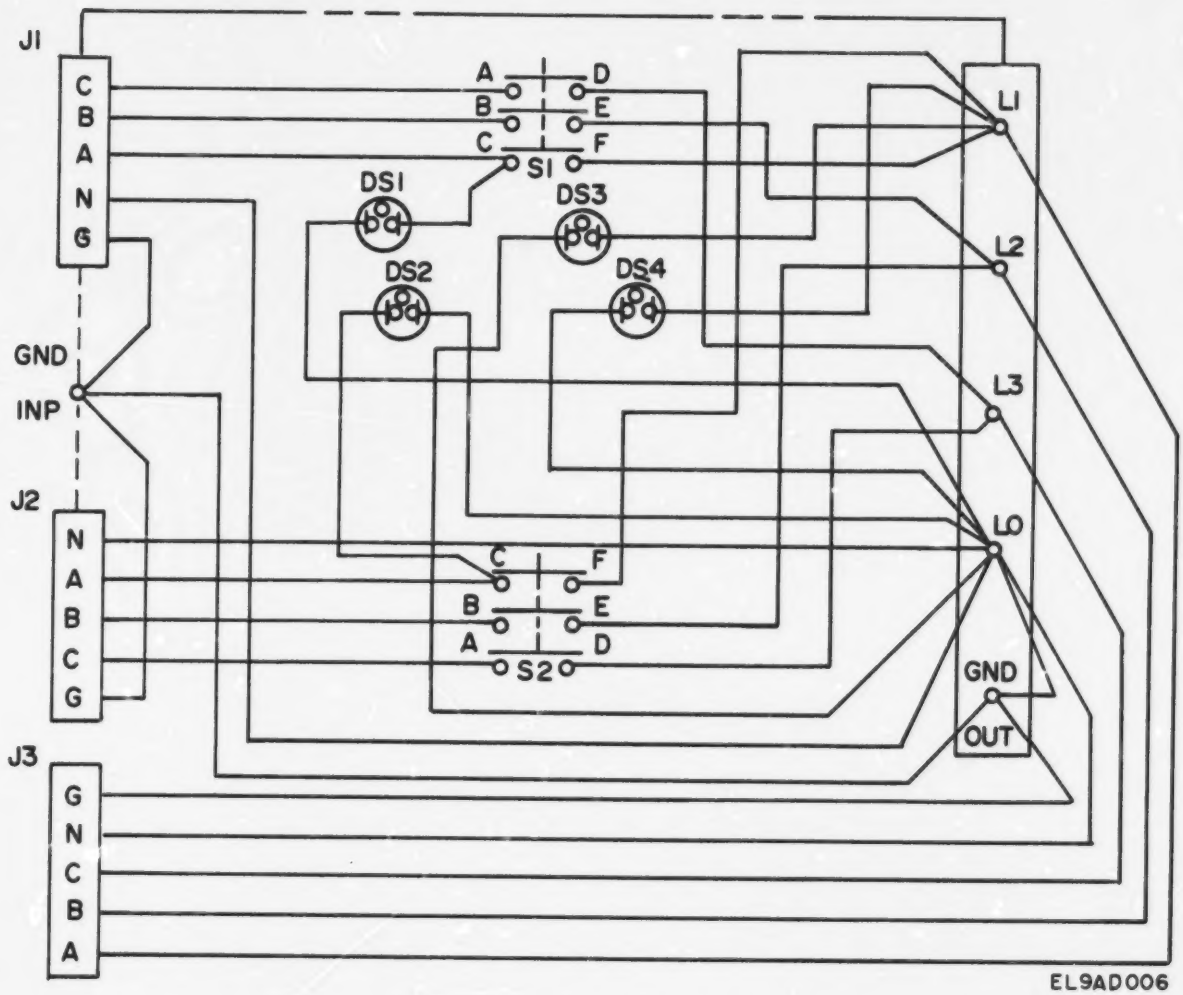

Figure 1-6. Wiring Schematic

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CHAPTER 2

INSTALLATION AND OPERATING INSTRUCTIONS

Section I. INSTALLATION INSTRUCTIONS

2-1. Grounding J-box (fig. 2-1)

NOTE

Although each input cable includes a ground lead, separate ground straps are required in the event one or both cables are disconnected.

a. Position grounding rod within 3 feet of the J-box.

b. Connect to ground terminal stud of the J-box, one end each of the two 6-foot and the 20-foot grounding cables provided with the J-box.

c. Connect loose end of one 6-foot cable to the ground rod.

d. Connect loose end of second 6-foot cable to ground lug on power unit closest to J-box.

e. Connect loose end of 20-foot cable to ground lug on power unit farthest from J-box.

f. See FM 20-31 for additional details on proper grounding procedures.

2-2. Installing J-Box

a. Ground according to instructions in paragraph 2-1 above.

NOTE

Generators must be off.

b. Connect first generator to POWER CABLE GEN NO. 1 INPUT connector (J1).

c. Connect second generator to POWER CABLE GEN NO. 2 INPUT connector (J2).

d. Connect load to output connector (J3).

2-3. Connecting Generator Cables

The generator cables might be installed for use with a different J-box, or may come unassembled. In either event, the following procedure should be followed to assure proper assembly to use with Power Transfer Box J-3743/G:

a. Turn off generator circuit breaker so power is removed from the generator power output/terminal load bar.

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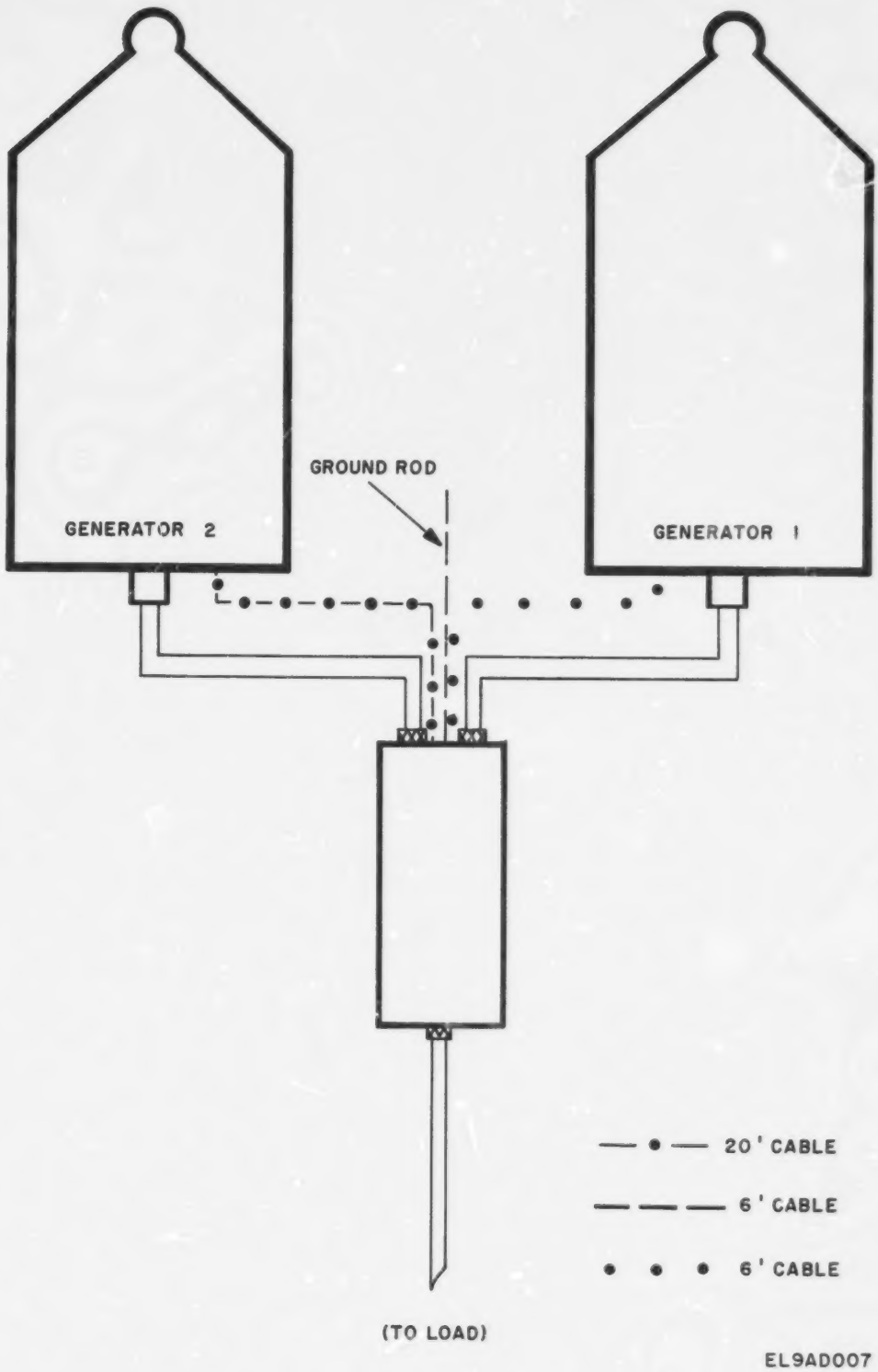

Figure 2-1. Grounding Diagram.

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b. Insure the open lead ends of the cable are connected to the generator load bar as follows:

Connector on PU Load Panel	*If Cable is Color Coded*	*Pin Designation is*
L1-Phase 1	Black	A
L2-Phase 2	Red	B
L3-Phase 3	Blue	C
LO (Neutral)	White	N
Power Unit Ground	Green	G

Section II. DESCRIPTION AND USE OF OPERATOR'S CONTROLS AND INDICATORS

2-4. Controls and Indicators

Nomenclature	*Function*
POWER CABLE GEN NO. 1 INPUT connector (J1)	Generator 1 hookup
POWER CABLE GEN NO. 2 INPUT connector (J2)	Generator 2 hookup
Power output connector (J3)	Load hookup, with connector
Terminal load bar	Load hookup, without connector
SWITCH GEN NO. 1 (circuit breaker) (S1)	Distributes power from generator 1 through J-box to load
SWITCH GEN NO. 2 (circuit breaker) (S2)	Distributes power from generator 2 through J-box to load
PILOT LIGHT GEN NO. 1 INPUT indicator (DS1)	Indicates generator 1 is in operation
PILOT LIGHT GEN NO. 2 INPUT indicator (DS2)	Indicates generator 2 is in operation
PILOT LIGHT OUTPUT indicator (DS3)	Indicates power being supplied to output connector/terminal load bar
PILOT LIGHT OUTPUT indicator (DS4)	Indicates power being furnished to load

Section III. PREVENTIVE MAINTENANCE CHECKS AND SERVICES

2-5. General

Before you operate. Always keep in mind the CAUTIONS and WARNINGS. Perform your before (B) PMCS. While you operate. Always keep in mind the CAUTIONS and WARNINGS. Perform your during (D) PMCS. If your equipment fails to operate, troubleshoot with the proper equipment and report any deficiencies using the proper forms. See DA Pam 738-750.

2-6. PMCS Procedures

Your preventive maintenance checks and services table lists the inspections and care of your equipment that will keep it in good working condition. The interval column tells you when to do the check or service. The procedure column tells you how to do them. Follow these instructions carefully.

Table 2-1. Operator/Crew Preventive Maintenance Checks and Services

B-Before A-After M-Monthly
D-During W-Weekly

Item No.	Interval B	D	A	W	M	Items to be inspected	Procedure	Equipment is not ready/available if:
1	*					GND ROD	Check to see if GND ROD is properly placed and connected.	Loose; see paragraph 2-1.
							Check to see if GND ROD is bent.	Bent; straighten if possible or replace.
2	*					Connectors	Inspect for dents.	Dents prevent proper connection of power unit cables; return J-box to higher level maintenance facility.
							Check to see if fittings are secure.	Connectors are loose due to missing or loose screws; replace/tighten screws, as necessary.

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Table 2-1. Operator/Crew Preventive Maintenance Checks and Services—Continued

B-Before A-After M-Monthly
D-During W-Weekly

Item No.	Interval B	D	A	W	M	Items to be inspected	Procedure	Equipment is not ready/available if:
	*						Check to see if connection is secure.	Cables are not connected or are loose; reconnect or tighten, as appropriate.
3	*					SWITCHES	Check to see if operable by moving from OFF to ON and back.	Cannot be moved; return J-box to higher level maintenance facility.
4		*				Lights	Observe to see if lit.	Unlit; remove/replace. If lights remain off *a.* Check generators, load, all connections, to insure working properly. *b.* Return J-box to higher level maintenance facility.
5				*		Box surface	Inspect for dust/dirt.	Clean using soft rag and trichlorotrifluoroethane.
							Inspect for scratches.	Touch up with paint as necessary.
6	*					Side panel	Insure side panel in place.	Side panel removed; replace.
				*			Inspect for loose or missing screws.	Replace/tighten screws, as necessary.
7				*		Protective flap	Inspect rubber gasket for wear.	Return J-box to higher level maintenance facility.
				*			Inspect for loose or missing screws.	Replace/tighten screws, as necessary

Section IV. OPERATING INSTRUCTIONS

2-7. Operating Under Normal Conditions

a. Install using instructions in paragraph 2-2 above.

b. Following procedures in TM 5-6115-275-14, start generator.

c. To apply power to load, turn SWITCH to corresponding connector on. SWITCH GEN NO. 1 is used in conjunction with POWER CABLE GEN NO. 1 INPUT connector (J1); SWITCH GEN NO. 2 is used in conjunction with POWER CABLE GEN NO. 2 INPUT connector (J2).

d. To remove power from load, turn switch off.

2-8. Transferring to Second Generator

NOTE

Alert load operator that there will be a momentary power loss.

a. Following procedures in TM 5-6115-275-14, start second generator.

b. Turn first switch off before turning second switch on. Leave unused switch off except when parallel generator operation is desired (see para 2-9, below). This is a safety feature.

c. Stop first generator and service as necessary.

2-9. Parallel Operation of Generators

a. Following procedures in paragraph 2-7 above, hook up and operate both generators.

NOTE

Generators must be in phase synchronization.

b. When supplying power to load, both SWITCH GEN NO. 1 and SWITCH GEN NO. 2 are to be in the on position.

c. More detailed information on paralleling and synchronizing of AC power units can be found in FM 20-31.

2-10. Operating Under Unusual Conditions

a. In extremely cold weather, do not touch J-box with bare hands.

b. Do not stand in water while operating J-box.

Section V. PREPARATION FOR MOVEMENT

2-11. The following procedures will be followed when preparing the equipment for movement:

a. Ensure all switches are off.

b. Disconnect all couplings and grounding cables and stow.

c. Replace connector protective covers.

d. Locate J-box on generator platform and secure.

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CHAPTER 3

MAINTENANCE

Section I. TROUBLESHOOTING PROCEDURES

3-1. General

a. This table lists the common malfunctions which you may find during the operation or maintenance of the J-box or its components. You should perform the tests/inspections and corrective actions in the order listed.

b. This manual cannot list all malfunctions that may occur, nor all tests, inspections or corrective actions. If a malfunction is not listed or is not corrected by listed corrective actions, notify your supervisor.

Table 3-1. Troubleshooting Chart

Malfunction	Probable Cause	Corrective Action
1. Switches (circuit breakers) trip off when power is on.	Overload condition. Reset switch to on position. If switch trips off again, corrective action is necessary	Using multimeter, determine where overload is present and take necessary corrective action.
2. PILOT LIGHT GEN NO. 1 INPUT indicator (DS1) or PILOT LIGHT GEN NO. 2 INPUT indicator (DS2) light off.	Input connector bad.	Remove and replace.
	Switch bad.	Remove and replace.
3. PILOT LIGHT OUTPUT indicator (DS3) or PILOT LIGHT OUTPUT indicator (DS4) light off.	Input connector bad.	Remove and replace.
	Switches bad.	Remove and replace.
	Output connector bad.	Remove and replace.

Section II. MAINTENANCE PROCEDURES

3-2. Replacing SWITCH

a. Unscrew SWITCH.
b. Unscrew and remove side panel.
c. Tag and remove wires to SWITCH.
d. Remove and replace SWITCH.
e. Attach wires to SWITCH, remove tags.
f. Replace screws under flap.
g. Replace side panel.
h. Using multimeter, test connection.

3-3. Replacing Connector

a. Unscrew connector.
b. Unscrew and remove side panel.
c. Tag and remove wires to connector.
d. Remove and replace connector.
e. Replace wires and remove tags.
f. Replace screws on connector.
g. Replace side panel.
h. Using multimeter, test connection.

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APPENDIX A

REFERENCES

DA Pam 310-1	Consolidated Index of Army Publications and Blank Forms.
DA Pam 738-750	The Army Maintenance Management System (TAMMS).
FM 20-31	Electric Power Generation in the Field.
TM 5-6115-275-14	Operator's, Organizational, Direct Support, General Support, and Depot Maintenance Manual: Generator Set, Gasoline Engine Driven, Skid Mounted, Tubular Frame, 10KW, AC, 120/208V, 3 Phase, and 120/240V, Single Phase, Less Engine, DOD Models MEP-018A, 60 Hz, (NSN 6115-00-889-1447) and MEP-323A, 400 Hz (6115-00-26-0843).
TM 740-90-1	Administrative Storage of Equipment.
TM 750-244-2	Procedures for Destruction of Electronics Materiel to Prevent Enemy Use (Electronics Command).

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APPENDIX B

MAINTENANCE ALLOCATION

Section I. INTRODUCTION

B-1. General

This appendix provides a summary of the maintenance operations for the J-3748/G. It authorizes categories of maintenance for specific maintenance functions on repairable items and components and the tools and equipment required to perform each function. This appendix may be used as an aid in planning maintenance operations.

B-2. Maintenance Function

Maintenance functions will be limited to and defined as follows:

a. Inspect. To determine the serviceability of an item by comparing its physical, mechanical, and/or electrical characteristics with established standards through examination.

b. Test. To verify serviceability and detect incipient failure by measuring the mechanical or electrical characteristics of an item and comparing those characteristics with prescribed standards.

c. Service. Operations required periodically to keep an item in proper operating condition, i.e., to clean (decontaminate), to preserve, to drain, to paint, or to replenish fuel, lubricants, hydraulic fluids, or compressed air supplies.

d. Adjust. To maintain, within prescribed limits, by bringing into proper or exact position, or by setting the operating characteristics to the specified parameters.

e. Align. To adjust specified variable elements of an item to bring about optimum or desired performance.

f. Calibrate. To determine and cause corrections to be made or to be adjusted on instruments or test measuring and diagnostic equipments used in precision measurement. Consists of comparisons of two instruments, one of which is a certified standard of known accuracy, to detect and adjust any discrepancy in the accuracy of the instrument being compared.

g. Install. The act of emplacing, seating, or fixing into position an item, part, module (component or assembly) in a matter to allow the proper functioning of the equipment or system.

h. Replace. The act of substituting a serviceable like type part, subassembly, or module (component or assembly) for an unserviceable counterpart.

i. Repair. The application of maintenance services (inspect, test, service, adjust, align, calibrate, replace) or other maintenance actions (welding, grinding, riveting, straightening, facing, remachining, or resurfacing) to restore serviceability to an item by correcting specific damage, fault, malfunction, or failure in a part, subassembly, module (component or assembly), end item, or system.

j. Overhaul. That maintenance effort (service/action) necessary to restore an item to a completely serviceable/operational condition as prescribed by maintenance standards (i.e., DMWR) in appropriate technical publications. Overhaul is normally the highest degree of maintenance performed by the Army. Overhaul does not normally return an item to like new condition.

k. Rebuild. Consists of those services/actions necessary for the restoration of unserviceable equipment to a like new condition in accordance with original manufacturing standards. Rebuild is the highest degree of materiel maintenance applied to Army equipment. The rebuild operation includes the act of returning to zero those age measurements (hours, miles, etc.) considered in classifying Army equipments/components.

B-3. Column Entries

a. Column 1, Group Number. Column 1 lists group numbers, the purpose of which is to identify components, assemblies, subassemblies and modules with the next higher assembly.

b. Column 2, Component/Assembly. Column 2 contains the noun names of components, assemblies, subassemblies, and modules for which maintenance is authorized.

c. Column 3, Maintenance Functions. Column 3 lists the functions to be performed on the item listed in column 2. When items are listed without maintenance functions, it is solely for purpose of having the group numbers in the MAC and RPSTL coincide.

d. Column 4, Maintenance Category. Column 4 specifies, by the listing of a "work time" figure in the appropriate subcolumn (s), the lowest level of maintenance authorized to perform the function listed in column 3. This figure represents the active time required to perform that maintenance function at the indicated category of maintenance. If the number or

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complexity of the tasks within the listed maintenance function vary at different maintenance categories, appropriate "work time" figures will be shown for each category. The number of task-hours specified by the "work time" figure represents the average time required to restore an item (assembly, subassembly, component, module, end item or system) to a serviceable condition under typical field operating conditions. This time includes preparation time, troubleshooting time, and quality assurance/quality control time in addition to the time required to perform the specific tasks identified for the maintenance functions authorized in the maintenance allocation chart. Subcolumns of column 4 are as follows:

C—Operator/Crew
O—Organizational
F—Direct Support
H—General Support
D—Depot

e. Column 5, Tools and Equipment. Column 5 specifies by code, those common tool sets (not individual tools) and special tools, test, and support equipment required to perform the designated function.

f. Column 6, Remarks. Column 6 contains an alphabetic code which leads to the remark in section IV, Remarks, which is pertinent to the item opposite the particular code.

B-4. Tool and Test Equipment Requirements (Sect. III)

a. Tool or Test Equipment Reference Code. The numbers in this column coincide with the numbers used in the tools and equipment column of the MAC. The numbers indicate the applicable tool or test equipment for the maintenance functions.

b. Maintenance Category. The codes in this column indicate the maintenance category allocated the tool or test equipment.

c. Nomenclature. This column lists the noun name and nomenclature of the tools and test equipment required to perform the maintenance functions.

d. National/NATO Stock Number. This column lists the National/NATO stock number of the specific tool or test equipment.

e. Tool Number. This column lists the manufacturer's part number of the tool followed by the Federal Supply Code for manufacturers (5-digit) in parentheses.

B-5. Remarks (Sect. IV)

a. Reference Code. This code refers to the appropriate item in section II, column 6.

b. Remarks. This column provides the required explanatory information necessary to clarify items appearing in section II.

(Next printed page is B.3)

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SECTION II MAINTENANCE ALLOCATION CHART
FOR

POWER TRANSFER BOX J-3748/G

(1) GROUP NUMBER	(2) COMPONENT/ASSEMBLY	(3) MAINTENANCE FUNCTION	(4) MAINTENANCE CATEGORY					(5) TOOLS AND EQPT.	(6) REMARKS
			C	O	F	H	D		
00	POWER TRANSFER BOX ASSY (SC-D-881063) (MTBF = 50,000)	Inspect	0.2						
		Test		0.1				1	
		Test			0.2			1,2	
		Replace		0.5					
		Repair	0.3						A
		Repair			1.0				

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SECTION III TOOL AND TEST EQUIPMENT REQUIREMENTS
FOR

POWER TRANSFER BOX J-3748/G

TOOL OR TEST EQUIPMENT REF CODE	MAINTENANCE CATEGORY	NOMENCLATURE	NATIONAL/NATO STOCK NUMBER	TOOL NUMBER
1	O, F	MULTIMETER AN/URM-105	6625-00-581-2036	
2	F	TOOL KIT, ELECTRONIC EQUIPMENT TK-100/G	5180-00-605-0079	

DRSEL-MA Form 1 Oct 77 6013

(Edition of 1 Oct 74 may be used until exhausted)

MILA-Pm 7133-77

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SECTION IV. REMARKS

REFERENCE CODE	REMARKS
A	REPAIR IS BY REPLACEMENT OF LAMPS AND GASKETS.

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APPENDIX C

REPAIR PARTS AND SPECIAL TOOLS LIST

SECTION I. INTRODUCTION

C-1. Scope

This manual lists and authorizes spares and repair parts; special tools; special test, measurement, and diagnostic equipment (TMDE); and other special support equipment required for performance of organizational, direct support and general support maintenance of the J-3748/G. It authorizes the requisitioning, issue, and disposition of spares, repair parts and special tools as indicated by the source, maintenance and recoverability (SMR) codes.

C-2. General

This Repair Parts and Special Tools List is divided into the following sections:

a. Section II. Repair Parts List. A list of spares and repair parts authorized by this RPSTL for use in the performance of maintenance. The list also includes parts which must be removed for replacement of the authorized parts. Parts lists are composed of functional groups in ascending numeric sequence, with the parts in each group listed in ascending item number sequence.

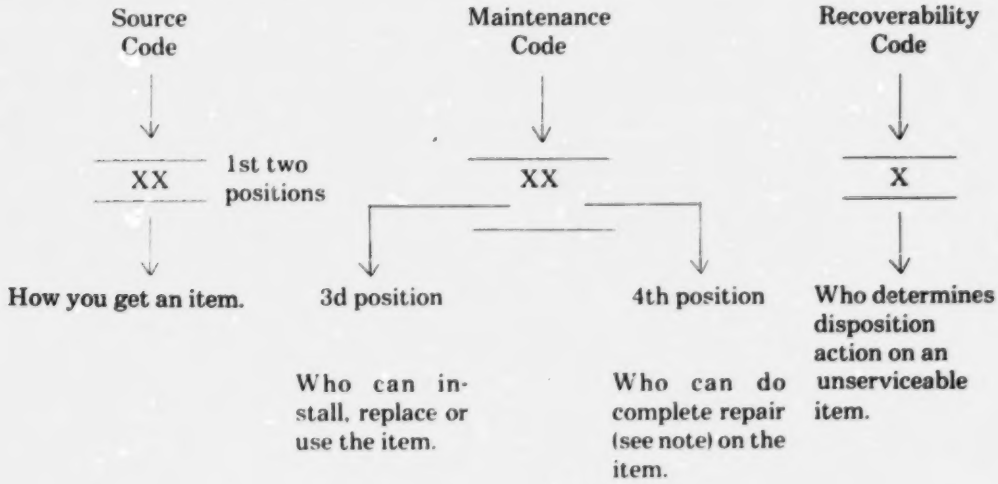
b. Section III. Special Tools List. Not applicable.

c. Section IV. National Stock Number and Part Number Index. A list, in National item identification number (NIIN) sequence, of all National stock numbered items appearing in the listing, followed by a list in alphameric sequence of all part numbers appearing in the listings. National stock numbers and part numbers are cross-referenced to each illustration figure and item number appearance.

C-3. Explanation of Columns (Section II and III)

a. Item No. (Column 1). Indicates the number used to identify items called out in the illustration.

b. SMR Code (Column (2)). The source, maintenance, and recoverability (SMR) code is a five-position code containing supply/requisitioning information, maintenance category authorization criteria, and disposition instruction, as shown in the following breakout:



NOTE

Complete repair: Maintenance capacity, capability, and authority to perform all corrective maintenance tasks of the "Repair" function in a use/user environment in order to restore serviceability to a failed item.

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(1) *Source code.* The source code tells you how to get an item needed for maintenance, repair, or overhaul of an end item/equipment. Explanations of source codes follows:

Code	*Explanation*
PA PB PC PD PE PF PG	Stocked items; use the applicable NSN to request/requisition items with these source codes. They are authorized to the category indicated by the code entered in the third position of the SMR code. **NOTE** Items coded PC are subject to deterioration.
KD KF KB	Items with these codes are not to be requested/requisitioned individually. They are part of a kit which is authorized to the maintenance category indicated in the third position of the SMR code. The complete kits must be requisitioned and applied.
MO— Made at org/ AVUM category MF— Made at DS/ AVUM category MH— Made at GS category ML— Made at Specialized Repair Activity (SRA) MD— Made at Depot	Items with these codes are not to be requested/requisitioned individually. They must be made from bulk material which is identified by the part number in the description and usable on code (UOC) column and listed in the Bulk Material group of the repair parts list. If the item is authorized to you by the third position code of the SMR code, but the source code indicates it is made at a higher category, order the item from the higher category of maintenance.
AO— Assembled by org/ AVUM category AF— Assembled by DS/ AVIM category AH— Assembled by GS category AL— Assembled by SRA AD— Assembled by Depot	Items with these codes are not to be requested/requisitioned individually. The parts that make up the assembled item must be requisitioned or fabricated and assembled at the category of maintenance indicated by the source code. If the disposition code of the SMR code authorizes you to replace the item, but the source code indicates the item is assembled at a higher category, order the item from the higher category of maintenance.

Code	*Explanation*
XA—	Do not requisition an "XA" coded item. Order its next higher assembly.
XB—	If an "XB" item is not available from salvage, order it using the FSCM and part number given.
XC—	Installation drawing, diagram, instruction sheet, field service drawing, that is identified by manufacturers part number.
XD—	Item is not stocked. Order an "XD" coded item through normal supply channels using the FSCM and part number given, if no NSN is available.

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NOTE

Cannibalization or controlled exchange, when authorized, may be used as a source of supply for items with the above source codes, except for those source coded "XA" or those aircraft support items restricted by requirements of AR 750-1.

(2) *Maintenance code.* Maintenance codes tell you the category of maintenance authorized to USE and REPAIR support items. The maintenance codes are entered in the third and fourth positions of the SMR code as follows:

(a) The maintenance code entered in the third position tells you the lowest maintenance category authorized to remove, replace, and use an item. The maintenance code entered in the third position will indicate authorization to one of tne following categories of maintenance.

Code — *Application/Explanation*

C— Crew or operator maintenance done within organizational or aviation maintenance.
O— Organizational or aviation unit category can remove, replace, and use the item.
F— Direct support or aviation intermediate category can remove, replace, and use the item.
H— General support category can remove, replace, and use the item.
L— Specialized repair activity can remove, replace, and use the item.
D— Depot category can remove, replace, and use the item.

(b) The maintenance code entered in the fourth position tells whether or not the item is to be repaired and identifies the lowest maintenance category with the capability to do complete repair (i.e., perform all authorized repair functions). This position will contain one of the following maintenance codes.

NOTE

Some limited repair may be done on the item at a lower category of maintenance, if authorized by the Maintenance Allocation Chart (MAC) and SMR codes.

Code — *Application/Explanation*

O— Organizational or aviation unit is the lowest category that can do complete repair of the item.
F— Direct support or aviation intermediate is the lowest category that can do complete repair of the item.
H— General support is the lowest category that can do complete repair of the item.
L— Specialized repair activity (designate the specialized repair activity) is the lowest category that can do complete repair of the item.
D— Depot is the lowest category that can do complete repair of the item.
Z— Nonreparable. No repair is authorized.
B— No repair is authorized. (No parts or special tools are authorized for the maintenance of a "B" coded item). However, the item may be reconditioned by adjusting, lubricating, etc., at the user category.

(3) *Recoverability code.* Recoverability codes are assigned to items to indicate the disposition action on unserviceable items. The recoverability code is entered in the fifth position of the SMR Code as follows:

Recoverability codes — *Application/Explanation*

Z— Nonreparable Item. When unserviceable, condemn and dispose of the item at the category of maintenance shown in the third position of SMR Code.
O— Reparable item. When uneconomically reparable, condemn and dispose of the item at organizational or aviation unit category.
F— Reparable item. When uneconomically reparable, condemn and dispose of the item at direct support or aviation intermediate category.
H— Reparable item. When uneconomically reparable, condemn and dispose of the item at general support category.
D— Reparable item. When beyond lower category repair capability, return to depot. Condemnation and disposal of item not authorized below depot category.
L— Reparable item. Condemnation and disposal not authorized below specialized repair activity (SRA).
A— Item requires special handling or condemnation procedures because of specific reasons (e.g., precious metal content, high dollar value, critical material, or hazardous material). Refer to appropriate manuals/ directives for specific instructions.

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c. FSCM (Column (3)). The Federal Supply Code for Manufacturer (FSCM) is a 5-digit numeric code which is used to identify the manufacturer, distributor, or Government agency, etc., that supplies the item.

d. Part Number (Column (4)). Indicates the primary number used by the manufacturer (individual, company, firm, corporation, or Government activity), which controls the design and characteristics of the item by means of its engineering drawings, specifications, standards, and inspection requirements to identify an item or range of items.

NOTE

When you use a NSN to requisition an item, the item you receive may have a different part number from the part ordered.

e. Description and Usable on Code (UOC) (Column (5)). This column includes the following information.

(1) The Federal item name and, when required, a minimum description to identify the item.

(2) The statement "END OF FIGURE" appears just below the last item description in Column (5) for a given figure in both section II and section III.

f. Qty (Column 6)). Indicates the quantity of the item used in the breakout shown on the illustration figure, which is prepared for a functional group, subfunctional group, or an assembly.

C-4. Explanation of Columns (Section IV)

a. National Stock Number (NSN) Index.

(1) Stock number column. This column lists the NSN by National item identification number (NIIN) sequence. The NIIN consists of the last nine digits of the NSN. When using this column to locate an item, ignore the first four digits of the NSN. When requisitioning items use the complete NSN (13 digits).

(2) *Fig. column.* This column lists the number of the figure where the item is identified/located. The illustrations are in numerical sequence in sections II and III.

(3) *Item column.* The item number identifies the item associated with the figure listed in the adjacent Fig. column. This item is also identified by the NSN listed on the same line.

b. Part Number Index. Part numbers in this index are listed by part number in ascending alphameric sequence.

(1) *FSCM column.* This column lists the Federal supply code for manufacturer (FSCM).

(2) *Part number column.* This column indicates the part number assigned to the item.

(3) *Stock number column.* This column lists the National stock number for the associated part number and manufacturer identified in the part number and FSCM columns to the left.

(4) *Fig. column.* This column lists the number of the figure where the item is identified/located in sections II and III.

(5) *Item column.* The item number is that number assigned to the item as it appears in the figure referenced in the adjacent figure number column.

C-5. Special Information

National stock numbers (NSN's) that are missing from P source coded items have been applied for and will be added to this TM by future change/revision when they are entered in the Army Master Data File (AMDF). Until the NSN's are established and published, submit exception requisitions to: Commander, US Army Communications-Electronics Command and Fort Monmouth, ATTN: AMSEL-MM, Fort Monmouth, NJ 07703-5006 for the part required to support your equipment.

C-6. How to Locate Repair Parts

a. When National stock number or part number is not known.

(1) *First.* Using the table of contents, determine the assembly group or subassembly group to which the item belongs. This is necessary since figures are prepared for assembly groups and subassembly groups, and listings are divided into the same groups.

(2) *Second.* Find the figure covering the assembly group or subassembly group to which the item belongs.

(3) *Third.* Identify the item on the figure and note the item number.

(4) *Fourth.* Refer to the Repair Parts List for the figure to find the part number for the item number noted on the figure.

(5) *Fifth.* Refer to the Part Number Index to find the NSN, if assigned.

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b. When National stock number or part number is known.

(1) *First.* Using the index of National stock numbers and part numbers, find the pertinent National stock number or part number. The NSN index is in National item identification number (NIIN) sequence (para 4*a*(1)). The part numbers in the part number index are listed in ascending alphameric sequence (para 4*b*). Both indexes cross-reference you to the illustration figure and item number of the item you are looking for.

(2) *Second.* After finding the figure and item number, verify that the item is the one you're looking for, then locate the item number in the repair parts list for the figure.

C-7. Abbreviations

Not applicable.

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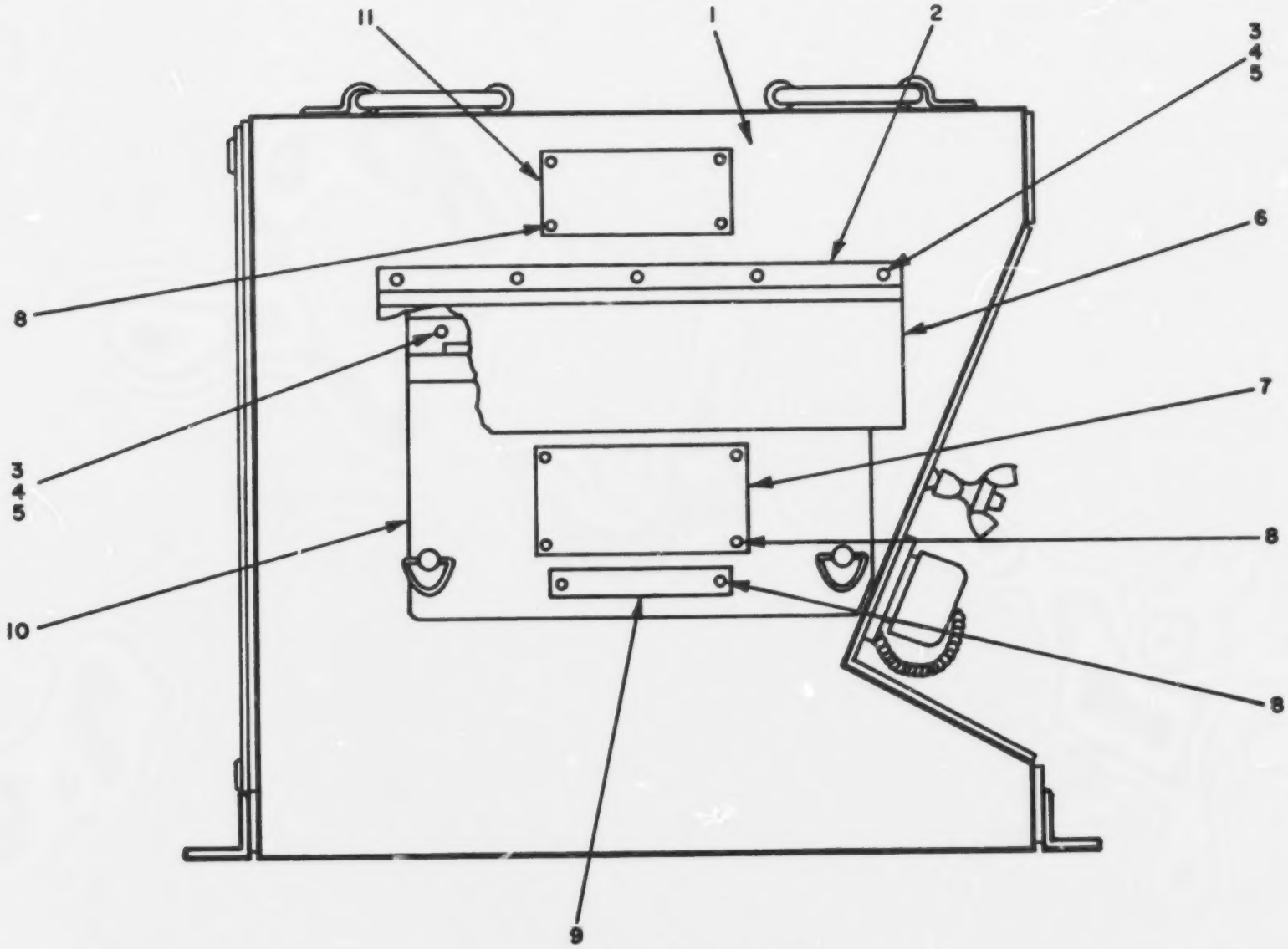

SIDE VIEW (LEFT)

EL9AD001

Figure 1. Power Transfer Box (Sheet 1 of 5)

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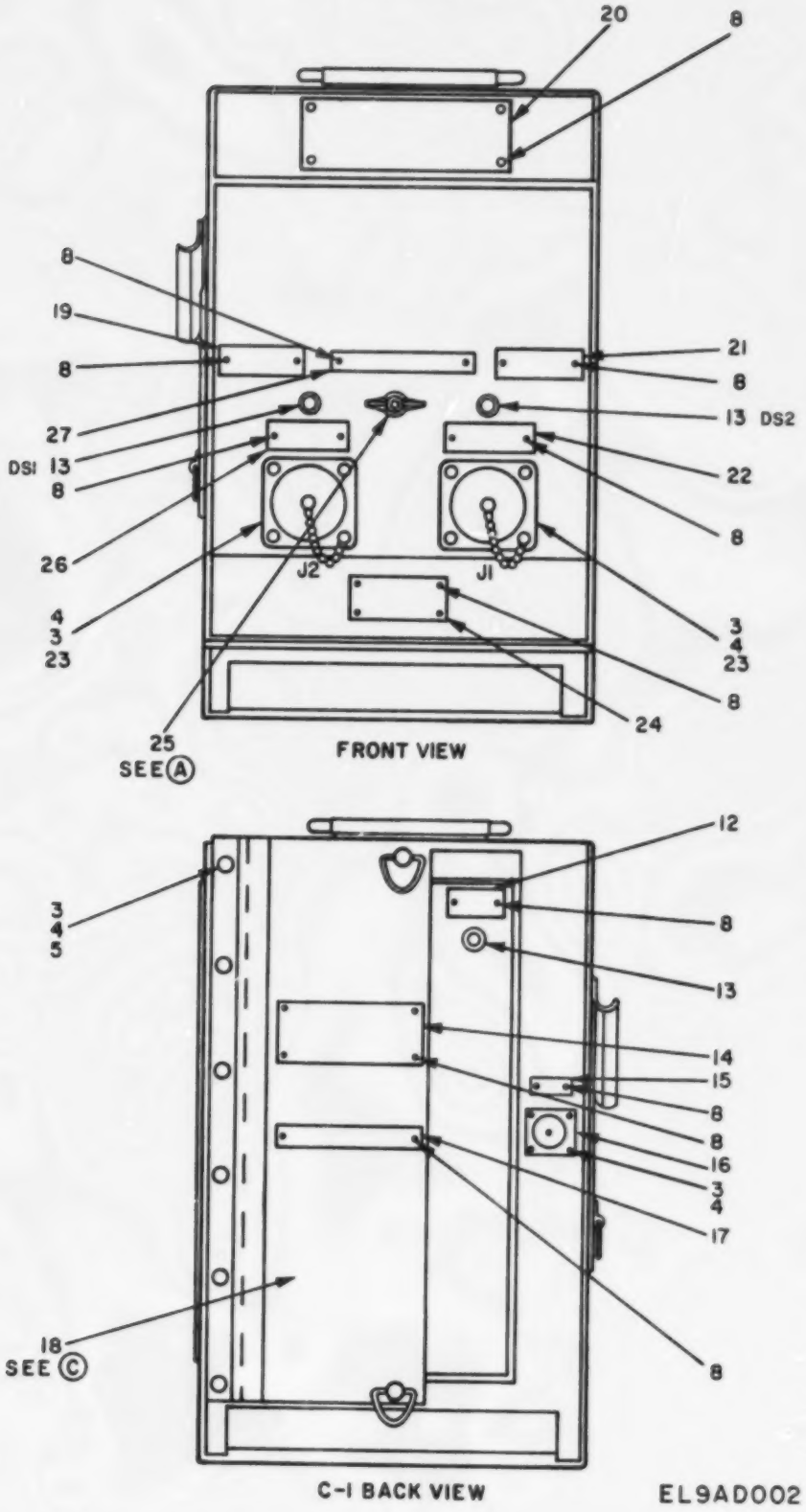

Figure 1. Power Transfer Box (Sheet 2 of 5)

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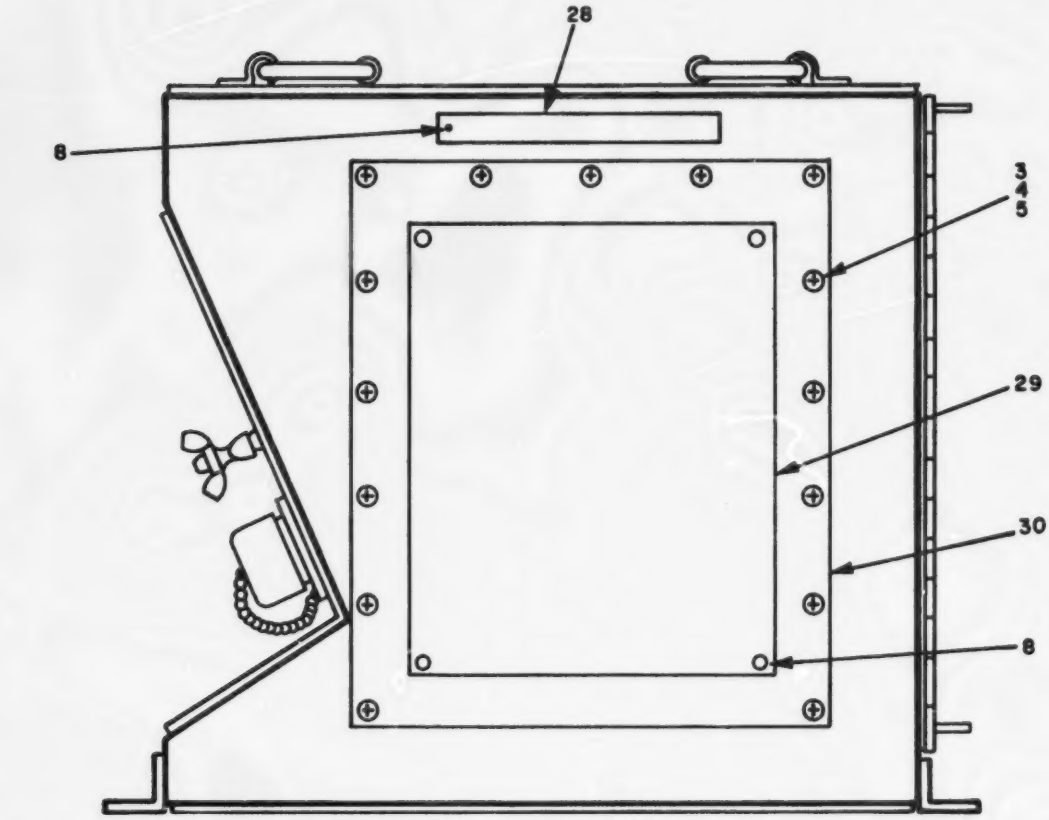

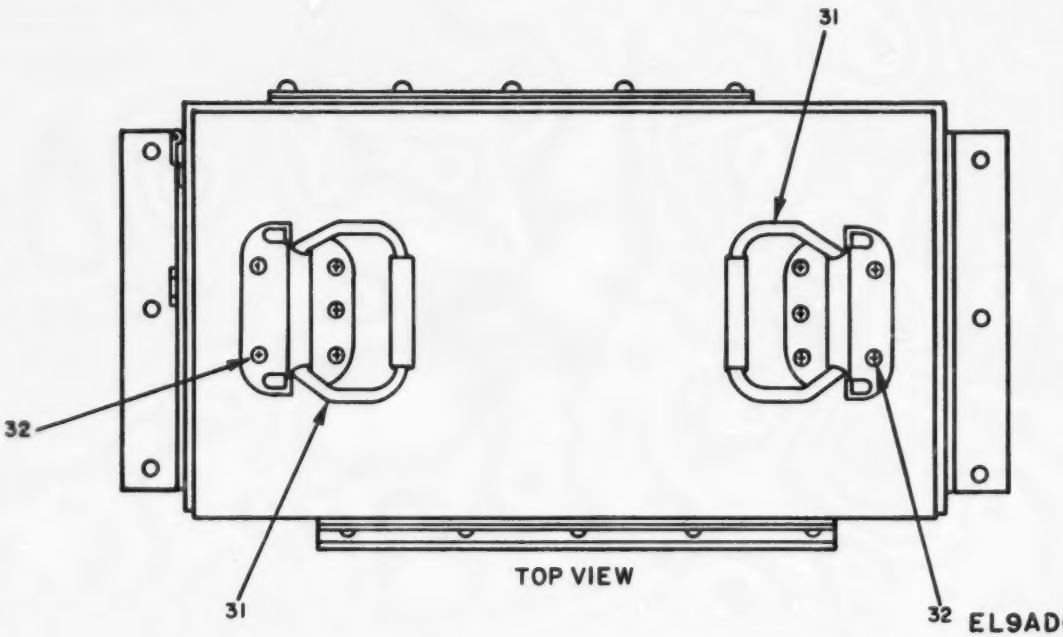

Figure 1. Power Transfer Box (Sheet 3 of 5)

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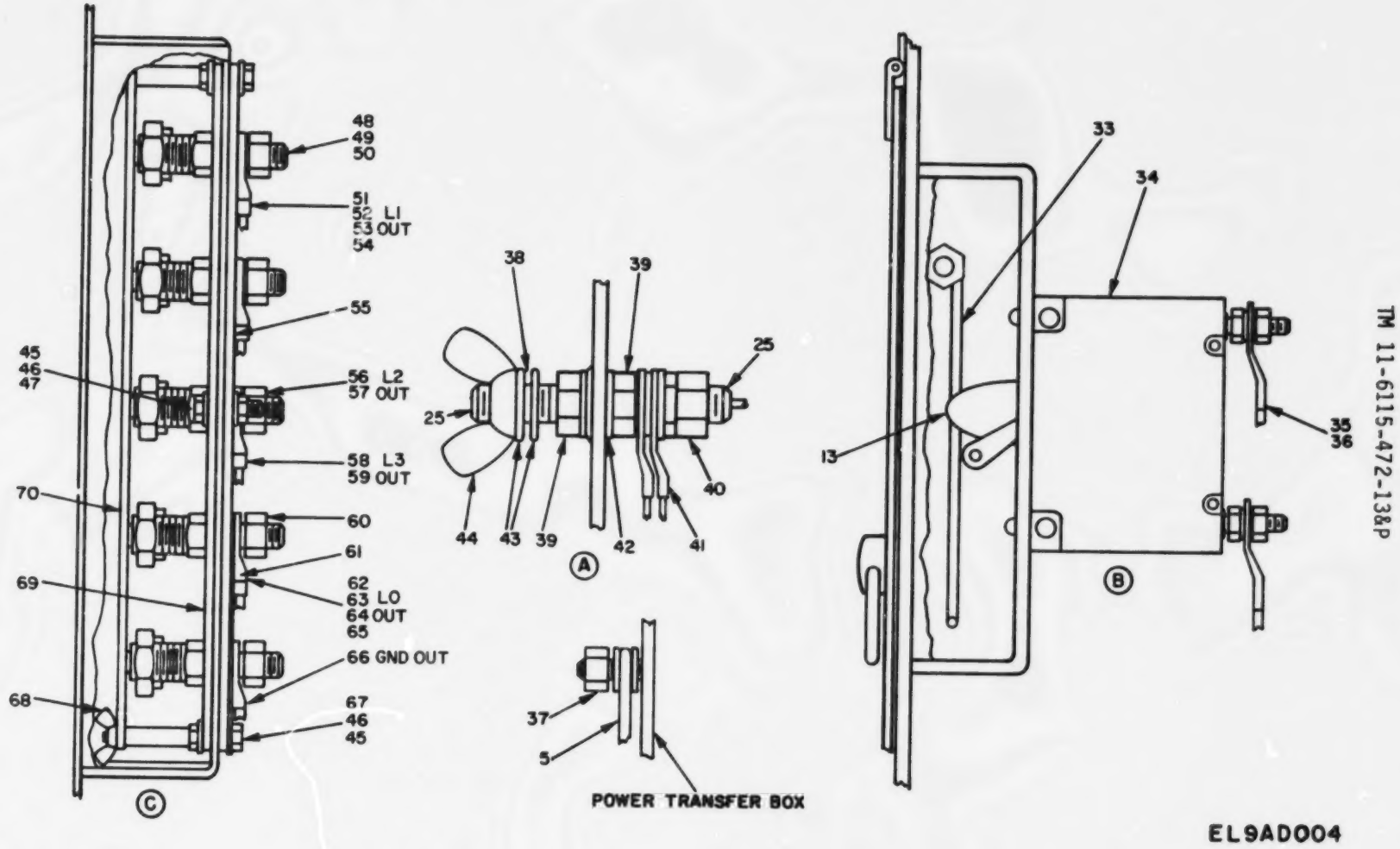

Figure 1. Power Transfer Box (Sheet 4 of 5)

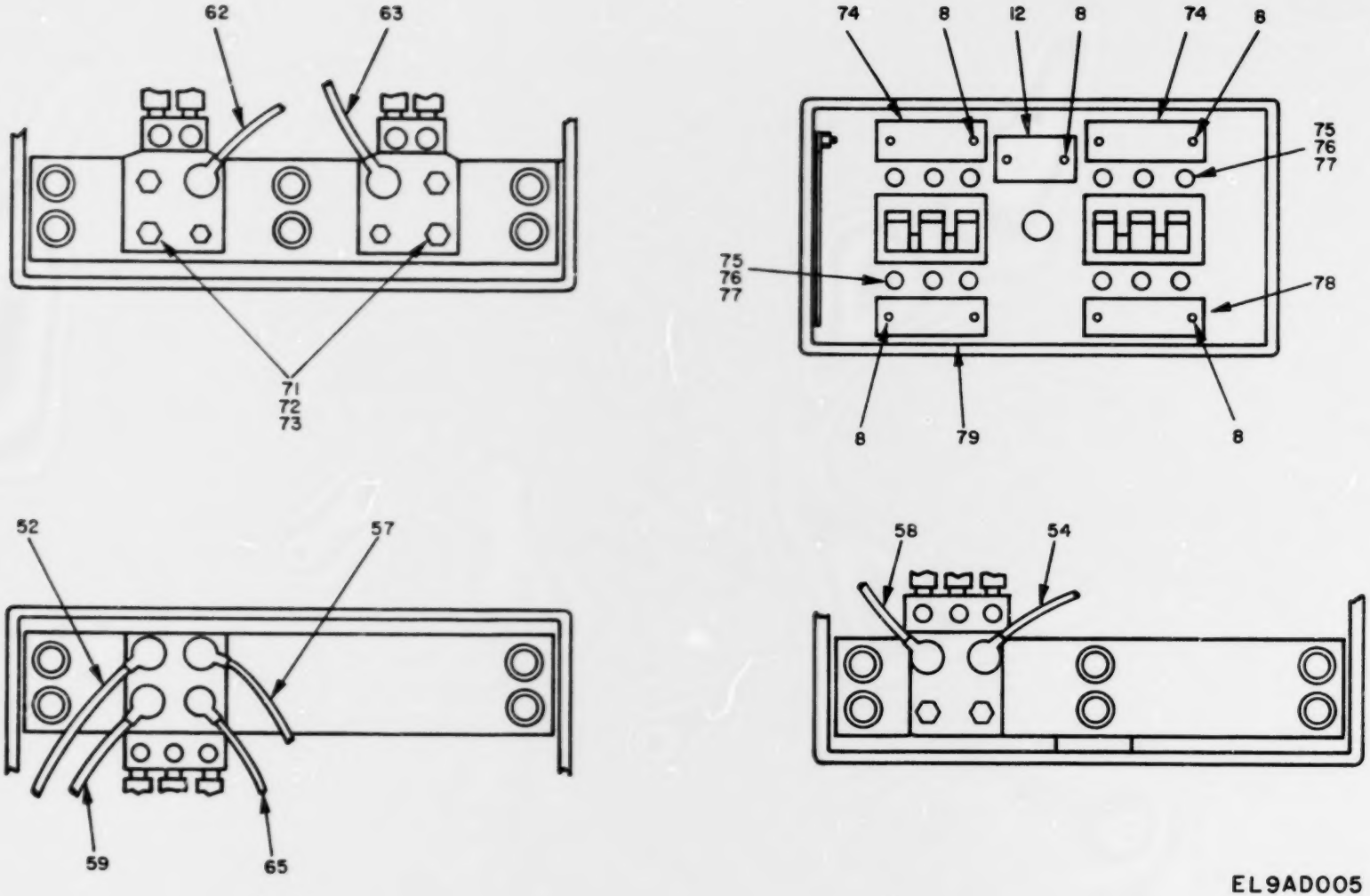

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Figure 1. Power Transfer Box (Sheet 5 of 5)

(1) ITEM NO	(2) SMR CODE	(3) FSCM	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES(UOC)	(6) QTY
				GROUP 00 POWER TRANSFER BOX	
				FIG. C-1	
1	PAOFF	80063	SC-D-881066	POWER TRANSFER BOX	1
2	XBFZZ	80063	SC-C-881473	CHANNEL, RAIN	1
3	PAFZZ	96906	MS35207-265	SCREW,MACHINE	43
4	PAFZZ	96906	MS35338-43	WASHER,LOCK	43
5	PAFZZ	96906	MS27183-8	WASHER,FLAT	43
6	XBFZZ	80063	SC-C-881399	SHIELD, RAIN	1
7	XBFZZ	80063	SC-C-881446	PLATE, INSTRUCTION	1
8	XBFZZ	80063	SC-C-539759-2	RIVET, DOME HEAD	56
9	XBFZZ	80063	SC-C-881428	PLATE, INSTRUCTION	1
10	PAFZZ	80063	SC-D-881412	DOOR SWITCH ACCESS	1
11	XBFZZ	80063	SC-C-881422	PLATE, IDENT	1
12	PAFZZ	80063	SC-C-881457	PLATE, DESIGNATION	2
13	PAFZZ	72619	181-8836-0931-553	LIGHT,INDICATOR	4
14	XBFZZ	80063	SC-C-881439	PLATE, INSTRUCTION	1
15	XBFZZ	80063	SC-C-881417	PLATE	1
16	PAFZZ	80063	SC-D-881400	CONNECTOR ASSEMBLY	1
17	XBFZZ	80063	SC-C-881465	PLATE, IDENT	1
18	XBFZZ	80063	SC-C-881413	COVER,POWER OUTPUT	1
19	XBFZZ	80063	SC-C-881460	PLATE DESIGNATION	1
20	XBFZZ	80063	SC-C-881456	PLATE INSTRUCTION	1
21	XBFZZ	80063	SC-C-881470	PLATE, DESIGNATION	1
22	XBFZZ	80063	SC-C-881469	PLATE, DESIGNATION	1
23	PAFZZ	80063	SC-D-881409	CONNECTOR ASSEMBLY	2
24	XBFZZ	80063	SC-C-881414	PLATE, WARNING	1
25	XBFZZ	80063	SC-C-881483	STUD	1
26	XBFZZ	80063	SC-C-881461	PLATE DESIGNATION	1
27	XBFZZ	80063	SC-C-881464	PLATE, IDENT	1
28	XBFZZ	80063	SC-C-881411	PLATE, INSTRUCTION	1
29	XBFZZ	80063	SC-D-881410	PLATE, WIRING DIAGM	1
30	XBFZZ	80063	SC-D-881408	COVER REAR	1
31	PAFZZ	96906	MS18012-5	HANDLE,BAIL	2
32	PAFZZ	96906	MS35206-246	SCREW,MACHINE	10
33	XBFZZ	80063	SC-C-881537	SUPPORT	1
34	PAFZZ	74193	AM3-A0-60	SWITCH	2
35	PAFZZ	80063	SC-C-881475-2	LEAD, ELECTRICAL	1
36	PAFZZ	80063	SC-C-881475-4	LEAD, ELECTRICAL	1
37	PAFZZ	96906	MS21044N3	NUT,SELF-LOCKING,HE	1
38	PAFZZ	96906	MS35338-103	WASHER,LOCK	2
39	PAFZZ	96906	MS16203-39	NUT,PLAIN,HEXAGON	2
40	PAFZZ	96906	MS16203-27	NUT,PLAIN,HEXAGON	1
41	PAFZZ	80063	SC-C-881539	WIRE ASSY. GROUND	1
42	PAFZZ	96906	MS35333-110	WASHER,LOCK	2
43	XDFZZ	88044	AN961-616T	WASHER,FLAT	5
44	PAFZZ	96906	MS35425-28	NUT,PLAIN,WING	1
45	PAFZZ	96906	MS35649-2252	NUT,PLAIN,HEXAGON	6
46	PAFZZ	96906	MS27183-10	WASHER,FLAT	12

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(1) ITEM NO	(2) SMR CODE	(3) FSCM	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES(UOC)	(6) QTY
47	PAFZZ	96906	MS90725-7	SCREW,CAP,HEXAGON H	2
48	PAFZZ	82168	DGN-13RP	TERMINAL	5
49	PAFZZ	96906	MS35335-93	WASHER,LOCK	5
50	PAFZZ	96906	MS16203-67	NUT,PLAIN,HEXAGON	5
51	PAFZZ	80063	SC-C-881481-1	LEAD, ELECTRICAL	1
52	PAFZZ	80063	SC-C-881481-2	LEAD, ELECTRICAL	1
53	PAFZZ	80063	SC-C-881475-5	LEAD, ELECTRICAL	1
54	PAFZZ	80063	SC-C-881475-7	LEAD, ELECTRICAL	1
55	XBFZZ	80063	SC-C-881536	PANEL, INSULATOR	1
56	PAFZZ	80063	SC-C-881481-3	LEAD, ELECTRICAL	1
57	PAFZZ	80063	SC-C-881481-4	LEAD, ELECTRICAL	1
58	PAFZZ	80063	SC-C-881481-5	LEAD, ELECTRICAL	1
59	PAFZZ	80063	SC-C-881481-6	LEAD, ELECTRICAL	1
60	XBFZZ	80063	SC-C-881535	FILLER, INSULATOR	1
61	XBFZZ	80063	SC-B-881438	BUS BAR	1
62	PAFZZ	80063	SC-C-881475-3	LEAD, ELECTRICAL	1
63	PAFZZ	80063	SC-C-881475-1	LEAD, ELECTRICAL	1
64	PAFZZ	80063	SC-C-881475-6	LEAD, ELECTRICAL	1
65	PAFZZ	80063	SC-C-881475-8	LEAD, ELECTRICAL	1
66	PAFZZ	80063	SC-C-881398	WIRE ASSY. GROUND	1
67	PAFZZ	80063	SC-B-881392	SCREW, CAP	4
68	PAFZZ	96906	MS35425-39	NUT,PLAIN,WING	4
69	XBFZZ	80063	SC-C-881538	PANEL, INSULATOR	1
70	XBFZZ	80063	SC-C-881427	COVER, PROTECT.ASSY	1
71	PAFZZ	96906	MS35309-361	SCREW,CAP,HEX	8
72	PAFZZ	96906	MS15795-914	WASHER,FLAT	8
73	PAFZZ	96906	MS51922-19	NUT,SELF-LOCKING,HE	8
74	XBFZZ	80063	SC-C-881423-1	PLATE DESIGNATION	2
75	PAFZZ	96906	MS35206-227	SCREW,MACHINE	12
76	PAFZZ	96906	MS35338-41	WASHER,LOCK	12
77	PAFZZ	96906	MS27183-6	WASHER,FLAT	12
78	XBFZZ	80063	SC-C-881423-3	PLATE DESIGNATION	1
79	XBFZZ	80063	SC-C-881423-2	PLATE DESIGNATION	1

END OF FIGURE

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NATIONAL STOCK NUMBER AND PART NUMBER INDEX

NATIONAL STOCK NUMBER INDEX

STOCK NUMBER	FIG.	ITEM
5310-00-009-7694	C-1	50
5310-00-022-8847	C-1	42
5310-00-045-3296	C-1	4
5310-00-045-4007	C-1	76
5310-00-045-5214	C-1	72
5310-00-080-8495	C-1	68
5310-00-082-1404	C-1	77
5310-00-184-8971	C-1	38
5305-00-225-3840	C-1	47
5310-00-543-4717	C-1	44
5310-00-584-7995	C-1	40
5340-00-801-2957	C-1	31
5310-00-809-4058	C-1	46
5310-00-809-8546	C-1	5
5310-00-877-5797	C-1	37
6210-00-900-9423	C-1	13
5310-00-948-9708	C-1	49
5305-00-984-4984	C-1	75
5305-00-984-6194	C-1	32
5305-00-993-1848	C-1	3
5310-00-997-1888	C-1	45
5310-01-026-5824	C-1	39
5310-01-034-2835	C-1	73

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NATIONAL STOCK NUMBER AND PART NUMBER INDEX

PART NUMBER INDEX

FSCM	PART NUMBER	STOCK NUMBER	FIG.	ITEM
74193	AM3-A0-60		C-1	34
88044	AN961-616T		C-1	43
82168	DGN-13RP		C-1	48
96906	MS15795-914	5310-00-045-5214	C-1	72
96906	MS16203-27	5310-00-584-7995	C-1	40
96906	MS16203-39	5310-01-026-5824	C-1	39
96906	MS16203-67	5310-00-009-7694	C-1	50
96906	MS18012-5	5340-00-801-2957	C-1	31
96906	MS21044N3	5310-00-877-5797	C-1	37
96906	MS27183-10	5310-00-809-4058	C-1	46
96906	MS27183-6	5310-00-082-1404	C-1	77
96906	MS27183-8	5310-00-809-8546	C-1	5
96906	MS35206-227	5305-00-984-4984	C-1	75
96906	MS35206-246	5305-00-984-6194	C-1	32
96906	MS35207-265	5305-00-993-1848	C-1	3
96906	MS35309-361		C-1	71
96906	MS35333-110	5310-00-022-8847	C-1	42
96906	MS35335-93	5310-00-948-9708	C-1	49
96906	MS35338-103	5310-00-184-8971	C-1	38
96906	MS35338-41	5310-00-045-4007	C-1	76
96906	MS35338-43	5310-00-045-3296	C-1	4
96906	MS35425-28	5310-00-543-4717	C-1	44
96906	MS35425-39	5310-00-080-8495	C-1	68
96906	MS35649-2252	5310-00-997-1888	C-1	45
96906	MS51922-19	5310-01-034-2835	C-1	73
96906	MS90725-7	5305-00-225-3840	C-1	47
80063	SC-B-881392		C-1	67
80063	SC-B-881438		C-1	61
80063	SC-C-539759-2		C-1	8
80063	SC-C-881398		C-1	66
80063	SC-C-881399		C-1	6
80063	SC-C-881411		C-1	28
80063	SC-C-881413		C-1	18
80063	SC-C-881414		C-1	24
80063	SC-C-881417		C-1	15
80063	SC-C-881422		C-1	11
80063	SC-C-881423-1		C-1	74
80063	SC-C-881423-2		C-1	79
80063	SC-C-881423-3		C-1	78
80063	SC-C-881427		C-1	70
80063	SC-C-881428		C-1	9
80063	SC-C-881439		C-1	14
80063	SC-C-881446		C-1	7
80063	SC-C-881456		C-1	20
80063	SC-C-881457		C-1	12
80063	SC-C-881460		C-1	19
80063	SC-C-881461		C-1	26
80063	SC-C-881464		C-1	27
80063	SC-C-881465		C-1	17
80063	SC-C-881469		C-1	22
80063	SC-C-881470		C-1	21

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NATIONAL STOCK NUMBER AND PART NUMBER INDEX

PART NUMBER INDEX

FSCM	PART NUMBER	STOCK NUMBER	FIG.	ITEM
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Stateside Army Depot
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Stateside, N.J. 07703-5007

DATE SENT
10 July 1975

PUBLICATION NUMBER	PUBLICATION DATE	PUBLICATION TITLE
TM 11-5840-340-20P	23 Jan 78	Radar Set AN/PRC-76

BE EXACT. PIN-POINT WHERE IT IS

PAGE NO	PARAGRAPH	FIGURE NO	TABLE NO
33			
44		19	
45			

IN THIS SPACE TELL WHAT IS WRONG AND WHAT SHOULD BE DONE ABOUT IT:

For item 2, change the NSN to read: 5835-00-134-9186.
Reason: Accuracy.

Identify the cover on the junction box (item no. 5).
Reason: It is a separate item and is not called out on figure 19.

Add the cover of the junction box as an item in the listing for figure 19.
Reason: Same as above

SAMPLE

PRINTED NAME, GRADE OR TITLE, AND TELEPHONE NUMBER
SSG I. M. DeSpirit of 999-1776

SIGN HERE
I. M. DeSpirit

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TM 11-6115-472-13&P	10 Sept 1985	Power Transfer Box J-3748/G

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By Order of the Secretary of the Army:

JOHN A. WICKHAM JR.
General, United States Army
Chief of Staff

Official:

DONALD J. DELANDRO
Brigadier General, United States Army
The Adjutant General

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